

# FM 403<sup>®</sup>

Version 0.1

Revision Date 06/22/2015

Print Date 01/29/2016

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: FM 403<sup>®</sup>

Substance number

: REL 4275

Chemical usage

Cleaning Compound

# Manufacturer or supplier's details

Company

: Chemetall US, Inc.

Address

675 Central Avenue

New Providence NJ 07974

Telephone

(800) 526-4473

Telefax

(908) 464-4658

Emergency telephone no

: CHEMTREC - 800-424-9300, 1-703-527-3887 (International)

#### SECTION 2. HAZARDS IDENTIFICATION

# **Emergency Overview**

Appearance	liquid	
Colour	light yellow	
Odour	like soap	
Hazard Summary	Causes irritation of eyes Harmful if swallowed.	

#### **GHS Classification**

Eye irritation

: Category 2A

#### **GHS** Label element

Hazard pictograms

**(!)** 

Signal word

Warning

Hazard statements

Causes serious eye irritation.

Precautionary statements

Prevention:

Wash skin thoroughly after handling. Wear eye protection/ face protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue



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rinsing.

If eye irritation persists: Get medical advice/ attention.

Potential Health Effects

Inhalation

: no

Skin

: no

Ingestion

: yes

Aggravated Medical

Condition

: None known.

Carcinogenicity:

**IARC** 

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**ACGIH** 

No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

**OSHA** 

No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP

No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Hazardous components

Component	CAS-No.	Weight percent
Sodium tetraborate pentahydrate	12179-04-3	1 - 5
Aluminum nitrate	13473-90-0	1 - 5
Potassium hydroxide	1310-58-3	0.1 - 1

Unidentified ingredients are considered not hazardous under Federal Hazard Communication Standard (29CFR 1910.1200).

Specific chemical identity of composition has been withheld as a trade secret.

Exact percentage of composition has been withheld as a trade secret.

#### **SECTION 4. FIRST AID MEASURES**

If inhaled

: Remove person to fresh air. If signs/symptoms continue, get

medical attention.



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In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes. If skin irritation persists, call a physician.

: Rinse immediately with plenty of water for at least 15 minutes. In case of eye contact

Keep eye wide open while rinsing.

Seek medical advice.

If swallowed : Rinse mouth.

Drink 1 or 2 glasses of water.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Dry powder

Foam

Carbon dioxide (CO2)

Further information : Use water spray to cool unopened containers.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Ensure adequate ventilation.

Methods and materials for containment and cleaning up

: Ventilate area. Clean up with inert absorbant material.

Keep in suitable, closed containers for disposal.

Flush with plenty of water.

Additional advice

Never return spills in original containers for re-use.

## **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling

: Use only with adequate ventilation.

Conditions for safe storage

: KEEP FROM FREEZING

Store indoors in a cool, well-ventilated place

Keep containers dry and tightly closed to avoid moisture

absorption and contamination.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters



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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Sodium tetraborate pentahydrate	12179-04-3	TWA	1.000000 mg/m3	NIOSH REL
		TWA	10.000000 mg/m3	OSHA P0
		TWA (Inhalable fraction)	2.000000 mg/m3	ACGIH
		STEL (Inhalable fraction)	6.000000 mg/m3	ACGIH
Aluminum nitrate	13473-90-0	TWA	2.000000 mg/m3	OSHA P0

## Personal protective equipment

Respiratory protection

: If the occupational exposure limits cannot be met, suitable

respirator equipment shall be worn.

Hand protection

Remarks

: Impervious gloves

Eye protection

: Safety glasses with side-shields

Skin and body protection

: Rubber or plastic apron

Hygiene measures

: Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

Wear suitable protective clothing.

Wash hands before breaks and immediately after handling the

product.

Provide adequate ventilation.

Do not inhale fumes.

Keep away from food and drink.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

Colour

: light yellow

Odour

: like soap

рН

: 9.0 - 10.0

Freezing point

: >0°C

Boiling point/boiling range

: no data available

Flash point

does not flash

Evaporation rate

: 1 Water = 1

Upper explosion limit

: Not applicable.



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Lower explosion limit

: Not applicable.

Vapour pressure

: no data available

Relative density

: 1.020

Bulk density

: 8.51 lb/gal

Solubility(ies)

Water solubility

: Appreciable

Partition coefficient: n-

: no data available

octanol/water

. 110 uata avallable

Auto-ignition temperature

: No data available

Thermal decomposition

: No data available

Viscosity, dynamic

: No data available

# SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid

: freezing

Incompatible materials

: Acids

Hazardous decomposition

products

: Nitrogen oxides (NOx)

Carbon oxides

Oxides of phosphorus

# **SECTION 11. TOXICOLOGICAL INFORMATION**

## Acute toxicity

Product:

Acute oral toxicity

: Acute toxicity estimate : > 5,000.000000 mg/kg

Method: Calculation method

# Components:

Sodium tetraborate pentahydrate:

Acute oral toxicity

: LD50 rat: 2,660.000000 mg/kg

LD50 rat: 3,305.000000 mg/kg

Acute inhalation toxicity

: LC50 rat: > 2.000000 mg/l

Test atmosphere: dust/mist

Acute dermal toxicity

: LD50 rabbit: > 2,000.000000 mg/kg

Aluminum nitrate:



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Acute oral toxicity

: LD50 mouse: 370.000000 mg/kg

LD50 rat: 204.000000 mg/kg

Potassium hydroxide:

Acute oral toxicity

: LD50 rat: 273.000000 mg/kg

LD50 rat: 365.000000 mg/kg

Acute dermal toxicity

: LD50 rabbit: 1,260.000000 mg/kg

#### Skin corrosion/irritation

#### Components:

Potassium hydroxide:

Result: Corrosive

# Serious eye damage/eye irritation

## **Product:**

Result: Eye irritation

#### Components:

## Sodium tetraborate pentahydrate:

Result: Eye irritation

# Potassium hydroxide:

Result: Corrosive

# Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

no data available

# Carcinogenicity

no data available

# Reproductive toxicity

no data available

# STOT - single exposure

no data available

# STOT - repeated exposure

no data available

# Aspiration toxicity

no data available



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#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

no data available

#### Bioaccumulative potential

#### Product:

Partition coefficient: n-

: Remarks: no data available

octanol/water

# Other adverse effects

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

# Disposal methods

Waste from residues

: Refer to all federal, provincial, state and local regulation prior to disposition of container and unused contents by reuse,

recycle or disposal.

# **SECTION 14. TRANSPORT INFORMATION**

### International regulation

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# **National Regulations**

#### SECTION 15. REGULATORY INFORMATION

**TSCA Status** 

: All components of this material comply with US TSCA

requirements.

OSHA Hazards

: Moderate eye irritant, Toxic by ingestion

WHMIS Classification

: D2B: Toxic Material Causing Other Toxic Effects

# **EPCRA - Emergency Planning and Community Right-to-Know Act**

Potassium hydroxide

1310-58-3

1,000

SARA 311/312 Hazards

: Acute Health Hazard

**SARA 302** 

: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.



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**SARA 313** 

: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# **US State Regulations**

# Massachusetts Right To Know

Trade Secret Registry	735517-5156P
Sodium tetraborate pentahydrate	12179-04-3

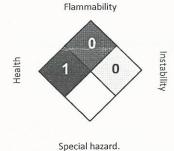
# Pennsylvania Right To Know

water	7732-18-5
Sodium Bicarbonate	144-55-8
Trade Secret Registry	735517-5003P
Trade secret registry	735517-5137P
Trade Secret Registry	735517-5156P
Aluminum nitrate	13473-90-0
Potassium hydroxide	1310-58-3
Zinc oxide	1314-13-2

# **New Jersey Right To Know**

water	7732-18-5
Sodium Bicarbonate	144-55-8
Trade Secret Registry	735517-5003P
Trade secret registry	735517-5137P
Trade Secret Registry	735517-5156P
Sodium tetraborate pentahydrate	12179-04-3
Aluminum nitrate	13473-90-0

#### NFPA:



## HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

Safety Glasses, Gloves, Apron

# **SECTION 16. OTHER INFORMATION**



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#### **Further information**

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